

From: glowbugs@sco.theporch.com Mon Mar 3 22:31:38 1997  
Return-Path: <glowbugs@sco.theporch.com>  
Received: from sco.theporch.com (sco.theporch.com [192.150.244.23])  
by uro.theporch.com (8.8.5/AUX-3.1.1)  
with ESMTP id WAA12366 for <shimshon@uro.theporch.com>;  
Mon, 3 Mar 1997 22:31:37 -0600 (CST)  
From: glowbugs@sco.theporch.com  
Received: from sco.theporch.com (localhost [127.0.0.1])  
by sco.theporch.com (8.8.5/SCO-5.0.2) with SMTP  
id EAA08462; Tue, 4 Mar 1997 04:30:21 GMT  
Date: Tue, 4 Mar 1997 04:30:21 GMT  
Message-Id: <199703040430.EAA08462@sco.theporch.com>  
Errors-To: ws4s@infoave.net  
Reply-To: glowbugs@sco.theporch.com  
Originator: glowbugs@sco.theporch.com  
Sender: glowbugs@sco.theporch.com  
Precedence: bulk  
To: Multiple recipients of list <glowbugs@sco.theporch.com>  
Subject: GLOWBUGS digest 463  
X-Listprocessor-Version: 6.0 -- ListProcessor by Anastasios Kotsikonas  
X-Comment: Please send list server requests to listproc@sco.theporch.com  
Status: RO

#### GLOWBUGS Digest 463

Topics covered in this issue include:

- 1) Re: Switch Mode Power supply @3kV  
by mack@mails.imed.com
- 2) Headfone (tin can) polarity  
by rdkeys@csemail.cropsci.ncsu.edu
- 3) tnx jeff kg7fj  
by leeboo@ct.net (Leon Wiltsey)
- 4) where to put speaker  
by leeboo@ct.net (Leon Wiltsey)
- 5) Re: where to put speaker  
by Steve Ellington <n41q@iglou.com>

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Date: Mon, 03 Mar 97 11:17:45 cst  
From: mack@mails.imed.com  
To: glowbugs@sco.theporch.com  
Subject: Re: Switch Mode Power supply @3kV  
Message-ID: <9702038574.AA857416404@mails.imed.com>

This sounds like a good idea to me. It really should be pretty much just that simple. I wouldn't make it fancy either. All you really

need is an unregulated DC-DC convertor. This is obviously to supply the anode of a big tube. You should get just as good regulation as you would with a normal 60 Hz transformer and rectifier stack. I don't think I would use 1 MHz though. That's a little beyond present "ordinary" useage. I would pick something like 100KHz or 200 KHz. It \*does\* mean a little more iron required though. The components should be a loyt cheaper and easier to get with the lower frequency.

Ray Mack  
WD5IFS  
mack@mails.imed.com  
Friendswood (Houston), TX

----- Reply Separator -----

I'm tinkering with the idea of building a switch mode power supply with an output of 3kV. I havent as yet researched much , but I'm thinking of using a frequency at around 1MHZ. I'll probably use FETS, a 1MHz oscillator and 2 Large toroids stacked. (Cant remember but they are Amidon, RED and about 2 inches in diameter.

Input 250 RMS (rectified) output 3kV DC. It should be nice and compact.

It sounds so simple, can anyone see something which I've missed ??

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Date: Mon, 3 Mar 1997 15:55:12 -0500 (EST)  
From: rdkeys@csemail.cropsci.ncsu.edu  
To: glowbugs@theporch.com  
Cc: rdkeys@csemail.cropsci.ncsu.edu ()  
Subject: Headfone (tin can) polarity  
Message-ID: <9703032055.AA109488@csemail.cropsci.ncsu.edu>

On the thread of headphone (tin can) polarity and magnetization and demagnetization.....

1. There is a correct way to hook up the tin cans. Ideally, there should be a pure black wire and a wire with a white tracer to the tip pins on the tin cans. One goes to B+ and the other goes to the tube (I forget which since it has been years since I saw that but it is covered in some of the very early radio literature somewhere). Look in Radio News, back in about 1922 or so, in one of Gernsback's columns, I think it was, or maybe a very small footer article of a paragraph or two at the bottom of a page.
2. I would expect that reversing the polarity of your tin can tip pins in the plug or on the tip jacks would overcome this problem of losing

magnetic flux. Dunno for sure, someone surely does.

3. The magnets are permanent magnets, and would be somewhat difficult to properly remagnetize, I would think. I would be a bit hesitant to pass sufficient current through the coils to actually do a remagnetization. You may need to remove the magnets and provide a serious external magnetic field to do any substantial remagnetization. Any magnetics physicists amongst us, with particulars?
4. I have yet to have that problem on any of mine. That does not mean I won't, but in 20 years of regens (granted at 48 volts and under most of the time) I have yet to find any degradation of them, unless I dropped them on the floor and pranged the diaphragm (that I have done a time or two, dern it)). I run about 25 pairs of different sorts of tin cans, and mostly it is wear and breaking parts that are my problems.
5. The biggest problem I have found with tin cans is deterioration of the tin diaphragm by rusting, especially through the ear holes in the cover. I wish there were a good source of modern diaphragms available somewhere. The second biggest problem is frayed cordage (would be fun to find a few new replacement cords to fit my Baldies and Admirals).
6. If anyone has a good realistic way to remagnetize tin cans, it might be worth trying to see if it makes any difference, on a weaker set if any are around. I have one pair of Western Electrics that are mostly dead on one side but fine on the other, and the wiring is intact. This one might be a dud diaphragm or a dead magnet, but I don't suspect the magnet, right off. Diaphragm corrosion is more likely.

73/ZUT DE NA4G/Bob UP

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Date: Mon, 3 Mar 1997 16:23:30 -0500 (EST)  
From: leeboo@ct.net (Leon Wiltsey)  
To: GLOWBUGS@theporch.com  
Subject: tn timer kg7fj  
Message-ID: <199703032123.QAA25340@blue.ct.net>

YOU PACKAGE ARRIVED TODAY

Thanks very much old buddy, I will put it to good use.

73 73 73 73

Thank the good LORD for all that you have!!!

Leon B Wiltsey jr. (Lee)

67yr old semi disabled senior  
(stroke got my balance and coordination)  
play keyboard and sing  
music 1920's to 60'  
none of the 80"S- 90's noise

-----  
Date: Mon, 3 Mar 1997 16:26:46 -0500 (EST)  
From: leeboo@ct.net (Leon Wiltsey)  
To: GLOWBUGS@theporch.com  
Subject: where to put speaker  
Message-ID: <199703032126.QAA25423@blue.ct.net>

Hi all ;  
am almost thru building a 2 tube regen,  
6aq5 det pushing a 6v6 audio out.

Heard regens tended to be microphonic  
soooooooooooooo should I mount the 5 inch  
speaker in a seperate box, or on the front panel?

Thank the good LORD for all that you have!!!

Leon B Wiltsey jr. (Lee)

67yr old semi disabled senior  
(stroke got my balance and coordination)  
play keyboard and sing  
music 1920's to 60'  
none of the 80"S- 90's noise

-----  
Date: Mon, 03 Mar 1997 17:53:11 -0800  
From: Steve Ellington <n41q@iglou.com>  
To: leeboo@ct.net  
Subject: Re: where to put speaker  
Message-ID: <331B8087.3FFB@iglou.com>

Leon Wiltsey wrote:

>  
> Hi all ;  
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> Leon B Wiltsey jr. (Lee)  
>  
> 67yr old semi disabled senior  
> (stroke got my balance and coordination)  
> play keyboard and sing  
> music 1920's to 60'  
> none of the 80'S- 90's noise

Front panel is fine. Just don't play RAP music.

Steve N4LQ

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End of GLOWBUGS Digest 463

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